

In this manner, rotation of the motor-driven shaft 200 causes movement of the bearings along the shaft. This imparts movement to the carriage 400 which is linked to the housing 800 which contacts the thumbplate of a syringe plunger thereby moving a plunger through a syringe barrel. Rotation of the cam 500 by a lever moves the casing containing the middle bearing 270 to lift it away from the shaft to disengage the bearing and enable the carriage to be slid freely along the shaft. The amount of force applied to the middle bearing can be adjusted by the spring, compression plate and socket set to adjust the load on the shaft.